

Title (en)

Robot cleaner, automatic exhaust station and robot cleaner system having the same

Title (de)

Roboterreinigung, automatische Abgasstation und Roboterreinigungssystem damit

Title (fr)

Robot nettoyeur, station d'échappement automatique et système de robot nettoyeur doté de celle-ci

Publication

EP 2449939 A3 20140402 (EN)

Application

EP 11184246 A 20111007

Priority

KR 20100108480 A 20101103

Abstract (en)

[origin: EP2449939A2] A robot cleaner (1) provided with a shutter (11,12) to open or close an inlet of a dust box (5) when the dust box (5) is separated from a body (4) of the robot cleaner (1) . Another robot cleaner, which docks with an automatic exhaust station (2), is also disclosed, together with the automatic exhaust station (2). The latter robot cleaner includes a shutter (111) to be automatically opened by air discharged from the automatic exhaust station (2) in a docked state of the robot cleaner to exhaust dust from the dust box (115), in order to allow even heavy dust to be easily exhausted.

IPC 8 full level

A47L 11/33 (2006.01); **A47L 9/14** (2006.01); **A47L 11/40** (2006.01)

CPC (source: EP US)

A47L 9/1463 (2013.01 - EP US); **A47L 9/149** (2013.01 - US); **A47L 11/33** (2013.01 - EP US); **A47L 11/4025** (2013.01 - EP US); **A47L 11/4072** (2013.01 - EP US); **A47L 2201/00** (2013.01 - EP US); **A47L 2201/024** (2013.01 - EP US)

Citation (search report)

- [A] EP 2050380 A2 20090422 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] US 2006288519 A1 20061228 - JAWORSKI THOMAS [US], et al
- [A] EP 1961358 A2 20080827 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] EP 1582132 A2 20051005 - ROYAL APPLIANCE MFG [US]

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2449939 A2 20120509; **EP 2449939 A3 20140402**; **EP 2449939 B1 20161207**; CN 102525335 A 20120704; CN 102525335 B 20160120; KR 101496913 B1 20150302; KR 20120046928 A 20120511; US 2012102670 A1 20120503; US 2015250371 A1 20150910; US 9060666 B2 20150623; US 9826871 B2 20171128

DOCDB simple family (application)

EP 11184246 A 20111007; CN 201110349620 A 20111031; KR 20100108480 A 20101103; US 201113317299 A 20111014; US 201514717271 A 20150520